

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)APPLICANT:
RudwigFILING DATE
December 23, 1999GROUP
1743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
98	P1	5,751,338	05/12/1998	Ludwig et al.	379	93.17	
	P2	5,617,539	04/01/97	Ludwig et al.	348	12	
	P3	5,579,143	11/26/96	Huber	359	130	
	P4	5,566,179	10/15/96	Kobayashi et al.	370	396	
	P5	5,563,882	10/08/96	Bruno et al.	370	260	
	P6	5,557,442	09/17/96	Huber	359	179	
	P7	5,555,244	09/10/96	Gupta et al.	370	397	
	P8	5,555,118	09/10/96	Huber	359	125	
	P9	5,534,914	07/09/96	Flohr et al.	348	15	
	P10	5,528,286	06/18/96	Goolcharan	348	19	
	P11	5,528,281	06/18/96	Grady et al.	348	7	
	P12	5,512,937	04/30/96	John D. Beierle	348	14	
	P13	5,490,247	02/06/96	Tung et al.	395	162	
	P14	5,473,679	10/05/95	La Porta et al.	379	220	
	P15	5,467,212	11/14/95	Huber	359	168	
	P16	5,440,551	08/08/95	Suzuki	370	60	
	P17	5,410,343	04/25/95	Coddington et al.	348	12	

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98	P18	5,375,068	12/20/94	Palmer et al.	364	514	
	P19	5,347,305	09/1994	Bush et al.	348	14	
	P20	5,283,637	02/01/94	Goolcharan	348	17	
	P21	5,257,306	10/26/93	Watanabe	348	15	
	P22	5,247,351	09/21/93	Cho	358	11	
	P23	5,247,347	09/21/93	Litteral et al.	358	85	
	P24	5,067,018	11/19/91	Sakamoto et al.	348	469	
	P25	5,065,396	11/12/91	Castellano et al.	370	84	
	P26	5,187,571	02/16/93	Braun et al.	358	85	
	P27	5,136,575	08/04/92	Kuroda	370	30	
	P28	5,130,793	07/14/92	Bordry et al.	358	86	
	P29	5,014,267	05/07/91	Tompkins et al.	370	62	
	P30	5,010,399	04/23/91	Goodman et alk.	358	85	
	P31	4,847,829	07/11/89	Tompkins et al.	370	62	
	P32	4,800,344	01/24/89	Graham	333	25	
	P33	4,760,442	07/26/88	O'Connell et al.	358	86	
	P34	4,752,940	06/21/88	Graham	375	10	
	P35	4,716,585	12/29/87	Tompkins et al.	370	202	
	P36	4,710,917	12/01/87	Tompkins et al.	370	62	

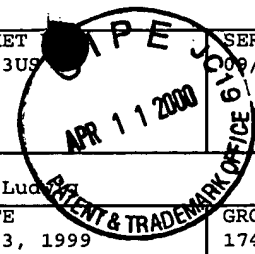
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98	P37	4,686,698	08/11/87	Tompkins et al.	379	53	
	P38	4,650,929	03/17/87	Boerger et al	358	86	
	P39	4,441,180	04/03/84	Schussler	359	123	
	P40	4,273,963	06/16/81	Seidel	379	398	
	P41	4,210,927	07/01/80	Yumde et al.	358	12	
	P42	4,084,181	04/11/78	Mita et al.	358	12	
	P43	4,054,910	10/18/77	Chou et al.	358	86	
	P44	4,005,265	01/25/77	Verhoeckx et al.	358	145.	
	P45	3,974,337	08/10/76	Tatsuzawa	348	17	
	P46	3,873,771	03/25/75	Kleinerman et al.	370	204	
	P47	3,723,653	03/27/73	Tatsuzawa	348	17	
	P48	3,701,849	10/31/72	Stapleton	348	16	
	P49	3,568,100	03/02/71	Tarbos	333	18	
	P50	3,530,251	09/22/70	Miyawaki	348	17	
	P51	3,519,744	07/07/70	Dorros et al.	348	15.	
	P52	3,456,206	07/15/69	Kwarytiroff	330	32	
	P53						

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
98	F1	A 2,282,506	4/5/95	GB				
	F2	A 2,287,611	9/20/95	GB				
	F3	A 05 268,585	1/94	JP				
	F4	A 0 352,210	1/90	FR				
	F5	A 0 617,560	9/28/94	EP				
	F6	A 0 244,260	11/4/87	EP				
	F7	A 0 354,370	A1	EP				
	F8	A 0 497,022	A1	EP				
	F9	350,715 2	A1	DE				
	F10	A 352210	01/24/90	EP				
	F11	WO 95/34167 A1	12/1995	PCT				
	F12	WO 95/13680 A1	05/1995	PCT				
	F13							

OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

98	D1	Transactions of the Institute of Electronics, Information and Communication Engineers of Japan, vol. E74, no. 9, September 1991, Tokyo, Japan pages 2696-2702
98	D2	Proc. of the 1st International Workshop on Community Networking - Integrated Multimedia Services to the Home - 13-14 July 1994, San Francisco (US), pages 203-209
98	D3	AT&T Visual Solutions Multipoint Control Unit. Product Literature. 1993

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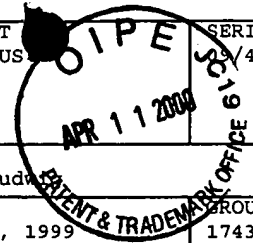
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<p>98</p>	D4	Chinon America, Inc., Chinon CX-062, Miniature Micro Color CCTV Board Camera. Product Literature, April 1994
	D5	Communique!. Insoft, Inc. Product Literature.
	D6	Article, Infoworld, "Up-Start Insoft Storms Conferencing." Dated October 10, 1994
	D7	Insoft Shared application Resource Environment - Share. Product Literature
	D8	Insoft Opendve. Your Software Development Bridge for Building Collaborative. Fully-Interperable Multimedia Applications. Product Literature.
	D9	For-A Company Limited. Operation Manual. Multi-Viewer MV-400 (1st Edition - Rev. 2).
	D10	For-A Company Limited. MV-40D Multi-Viewer. Product Literature.
	D11	For-A Company Limited. MV-40C Multi-Viewer. Product Literature.
	D12	Lightwave Systems, Inc., Communiation Systems. Installation Guide Series 4000 Stanalone Twisted Pair Video System. STD. Doc #840-000-01.
	D13	Maxim Integrated Products. Excerpt from Engineering Journal. "New Amplifiers Simply Wideband Techniques". Date Unknown.
	D14	Maxim Integrated Products. Wideband Transconductance Amplifiers. Max435/Max436. Product Literature. 0042. Rev. 1, April 1993.
	D15	Network Video Technologies. NVT Quality Video Over Ordinary Telephone Wire Rackmount Video Transceiver System. Product Literature.
	D16	Nuts Technologies. Connect 918., P. 3.15 Desktop Videoconferencing Report and P 3.16 Applied Business Telecommunications. Product Literature.
	D17	Picturetel. M-7000 Multipoint Bridge and Control System. Simultaneous. Interactive Videoconferencing Among Three to Sixteen Locatins. Product Literature.
	D18	Picturetel Corporation. Article. Multilocation Teamwork is the Key to Success in the Competitive 90s.
	D19	Tut Systems. Ethernet or 10Baset. Over one pair Wire. Product Literature.
	D20	Tut Systems. Article "Tut Transceivers Target Telcos. ATM. by Reinhardt Krause, Journal Unknown. Date Unknown.
	D21	Videoserver, Inc. Videoserver Series 2000 MCU. Product Literature.

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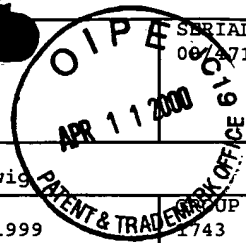
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gfb	D22	Videoserver, Inc., Videoserver Series 2000 Conference Scheduling and Reservation Application. Product Literature.
	D23	Data Communications, Videoconferencing. Mix-And-Match Videoconferencing, Startup's MCU Allows Videoconferences Among Sites Using Different Vendors' Codecs August 1992.
	D24	Videoserver, Inc., Videoserver Series 2000 Multipoint Control Unit. Product Backgrounder. The New Standard for Multipoint Conferencing. Product Literature.
	D25	Ameritech Bridged Video Service Press Release. October 11, 1994.
	D26	AT&T AccUNET Switched Digital Services. Data Networking User Guide. Communications Concert, January 1991.
	D27	AT&T Worldwork Network Services. Product Literature.
	D28	MCI Telecommunications Corporation. Product Literature.
	D29	MFS Communications Company, Inc., Business Plan.
	D30	Pacific Bell. A Pacific Telesis Company. "Affordable Multipoint Videoconferencing is Real. California. . ." Product Literature. October 1994.
	D31	"Fiber Net to Link Video Production Units: 50 Facilities . . ." Photonics Spectra. Nov. 1991.
	D32	"Merrill Tests Video: Brokage Uses Video-Conferencing System Based on Wiltel DS-3 Fiber-Network Service". Communications Week, April 8, 1991. P.*.
	D33	Chang, Chen and Messerschmitt. "Video Compositing in the DCT Domain" IEEE Workshop on Visual Signal Processing and Communications. Sept. 1992. PP 138-143.
	D34	Lei, Chen and Sun. "Video Bridging Based on H.261 Standard", IEEE Transactions on Circuits and Systems for Video Technology. Vol 4, No. 4, August 1994.
	D35	Ludwig. Frontiers in Computer Communications Technology. "A Threaded/Flow Approach to Reconfigurable Distributed Systems & Service Primitives Architectures" ACM Sigom 1987
	D36	Ludwig & Dunn. Frontiers in Computer Communications Technoogy "Laboratory for Emulation and Study of Integrated and Coordinated Media Communication" ACM Sigcomm Aug. 1987
	D37	Electronic Engineering Times. A CMP Publication. Issue 821. "DSP Kicks ATM onto voice lines, October 31, 1994.
	D38	San Jose Mercury News. "New System Locates Site of Gunshots". Nov. 1994 and Redwood City to Install High-Tech Gunfire Sensor.
	D39	Yun & Messerschmitt "On Architectures for Video Compositing". Dept. of Electrical Eng. & computer Sciences. Multimedia Systems 1994.
	D40	Boyer & Lukacs. "The Personal Presence System - A Wide Area Network Resource for the Real Tim Composition of Multipoint Multimedia Communciations. ACM Multimedia. October 1994.

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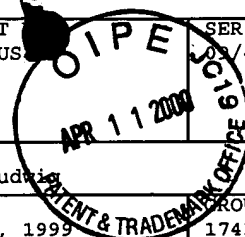
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96	D41 Lukacs. "The Personal Presence System - Hardware Architecture." ACM Multimedia October 1994.
	D42 Press Release Broadband Technologies, Inc. , December 6, 1994
	D43 PC Wook, You May Be Ready Foro ATM, But It isn't Ready For You. Sept. 5, 199__.
	D44 The Wall Street Journal. "Ameritech Sets Charge of \$2.25 Billion for Old Equipment: Loss is Seen for Year. P. A4, Nov. 29, 1994.
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	D50 Ludwig, L.F., "Integration of CAD/CAE with Multimedia Teleconferencing and Messaging Via Broadband Networks and Shared Resource Servers, Bellcore, Undated.
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	D52 Televideo, Instructions, Product Literature.
	D53 Network World, "AT&T Looks to Extend Mail APIs with Voice, Fax, Video". Page 6, Oct. 10, 1994.
	D54 IM & Werner, "Bandwidth-Efficient Digital Transmission up to 155 MB/S Over Unshielded Twisted Pair Wiring, ICC 1993.
	D55 Klein, P. "Telekommunikation Von Angesichtzu Angesicht", Siemens AG, 2323 Telecom Report, No. 5, Sept./Okt. 1986, Erlangen, W. Germany.
	D56 Ramanathan, Rangan, Vin, & Kaepner, "Optimal Communication Architectures for Multiconferencing in Distributed Systems", Proceedings of 12th International Conference on Distributed Computing Systems, June 9-12, 1992.
	D57 Maeno, Sakata, Ohmori, Watabe & Fukuoka "Distributed Desktop Conferencing System (Mermaid) Based on Group Communication Architecture" IEICE Transactions, Vol. E74 Sept. 1991.
	D58 Weiss, C., "Desk Top Video Conferencing - An Important Feature of Future Visual Communications", Proceedings of IEEE International Conference on Communications.

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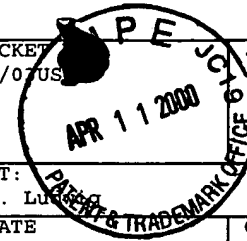
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96	D59	Audio Engineering Handbook, K. Blair Benson, Ed., McGraw-Hill, 1998, Sect. 4.6.
	D60	Satellite Source, Mastermind, Product Advertisement.
	D61	Article, "Instant Network Rides On Phone Lines", Electronic Design, Aug. 6, 1987.
	D62	Sheets, W. & Graf, R. "Build This . . . Carrier Current Receiver", Radio Electronics Feb., 1989.
	D63	Sheets, W. & Graf, R., "Building This . . . Carrier Current Audio Transmitter", Radio Electronics, Jan. 1989.
	D64	Teleconcepts, Inc., "Teleconcepts . . . Introduces the "Just Plug It In" Intercom System", Product Literature.
	D65	Windmaster Manufacturing, Remote Extender, Owner's Manual, Product Literature.
	D66	"A Derring-Do Attitude Propels Wiltel . . . And Creative Expansion", Williams Telecommunications Group Inc. Industry Highlights, Steve Polilli, April 1992.
	D67	An Examiner's Search Report in Patent Application No. GB 9520848.4
	D68	Commercial Database Record Including the Patent Family for EP 606837
	D69	

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